

**EE/CprE/SE 491 WEEKLY REPORT - sdmay25-05**

**October 4, 2024– October 10, 2024**

**Group number: 05**

**Project title: Media Search Engine**

**Client: Henry Bremers ([hbremers@gmail.com](mailto:hbremers@gmail.com)),**

**Advisor: Ashfaq Khokhar ([ashfaq@iastate.edu](mailto:ashfaq@iastate.edu))**

**Team Members/Role:**

Nguyen Do — Team organization

Lim Edmund Y — Client Interaction

Niharika Pathuri — Documentation

Varun Reddy Yeduru — Individual component Design

Eshanth Reddy Chinthareddy — Testing

**Weekly Summary:**

This week, our team has dedicated significant time and effort to understanding the users and the use cases for our media search engine, a critical aspect of ensuring that the product we build meets the needs and expectations of our target audience. We conducted thorough research into the different types of users who will interact with the system, such as lawyers, reporters, and media analysts, each with their unique requirements. For instance, we explored how lawyers would benefit from real-time updates on media mentions related to their clients, while reporters need instant alerts for breaking news, and media analysts require advanced tools for tracking trends and user engagement. This deep dive into user behavior and needs has helped us define clear use cases that will guide the development of both the front-end and back-end of the system.

Additionally, the clients gave all team members access to the project GitHub, and we reviewed the source code together to assess the strengths and weaknesses of each member, allowing us to assign the teams accordingly.

## *Past Week Accomplishments:*

- Edmund Lim
  - Chosen Position
    - After discussions with the client, I've decided to take on a backend role, which primarily involves working with C/C++. I've started preparing by researching and refreshing my knowledge of the language.
    - I've also begun exploring the GitHub repository to familiarize myself with the codebase.
  - Presentation Progress
    - I've completed the presentation slides, specifically focusing on the persona for the Reporter section.
  - Communication with Advisor and Client
    - I've been keeping in regular contact with both the advisor and the client. I sent a reminder about the meeting time and shared the Google Meet link.
    - Since the advisor couldn't attend this week's meeting, I provided him with a brief summary of the client's updates via email.
- Nguyen
  - Decided to Join the Front-end Team and keep updated with clients
    - Discussed front-end requirements with clients to gather clarification.
    - Dedicated more time to researching Angular for front-end development.
  - Defined Personas
    - Created a persona for Lawyer Mr. Law.
    - Identified his needs: real-time and accurate updates on clients' information appearing online.
    - Determined notifications should be sent to his personal device.
  - Defined System Requirements and Standards
    - System Requirements:
      - Back-end: The database must cover a wide range of information sources and update regularly.
      - Front-end: Should include notification pop-ups.
      - System: Must recover quickly from failures to ensure nearly 24/7 operation.
    - Standards Research:
      - Explored IEEE 830-1998 (software requirements specification).
      - Investigated IEEE 802.11ac (wireless network standard).
      - Looked into IEEE 12207 (systems and software engineering).
- Niharika
  - **Documentation Work:**
  - Continued working on the project documentation to make sure everything is clearly explained.

- Helped update the technical requirements section based on the team's discussions.
  - Worked closely with other team members to ensure all necessary details are covered in the documentation.
  - **Research and Learning:**
  - Spent time researching good documentation practices, especially in software development projects.
  - Participated in team meetings to discuss how to structure the project documentation and make it easy to understand.
  - **Project Contributions:**
  - Assisted in preparing presentation slides for our first Lightning Talk session, which focused on product research and user personas.
  - Created a summary of user access levels and authentication methods based on team discussions and requirements.
- Varun
    - Attended a client meeting to understand the project and set a goal for the week.
    - The goal involves exploring the GitHub repository to understand the code before deciding on specific features to work on.
    - Collaborated with the team to work on the "Problem and Users" slides.
    - Learning Angular while working on the project.
- Eshanth
    - I Chose frontend and (a bit of the backend ) figured I could use my knowledge in Angular to this project, and also decided to gain some experience with the backend.
    - Contributed to the product research and looked into github repo and gained a deeper understanding of the project.
    - Did some help with preparing the presentation slides for our lighting talk session.
    - Explored various system design standards
    - Had a meeting with a client and gained understanding on specific parts of the project.

**Pending Issues:**

- Need more looking into github repos to understand our strengths and weaknesses

**Individual Contributions:**

| <u>NAME</u> | <u>Individual Contributions</u><br><i>(Quick list of contributions. This should</i> | <u>Hours this week</u> | <u>HOURS cumulative</u> |
|-------------|---|------------------------|-------------------------|
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|          | <i>be short.)</i>  |   |    |
|----------|--|---|----|
| Edmund   | <ul style="list-style-type: none"> <li>● chosen a backend position focusing on C/C++, started preparing by reviewing the language, and has begun studying the GitHub repository.</li> <li>● completed the presentation slides for the Reporter persona and stayed in touch with both the client and advisor, sending meeting reminders and summarizing the client meeting for the advisor who couldn't attend.</li> </ul>  | 4 | 12 |
| Nguyen   | <ul style="list-style-type: none"> <li>● Nguyen decided to join the front-end team working with Angular 17. He spent 2 more hour to learn basic Angular and gain access to github repo</li> <li>● Contribute to define personas Lawyer with specific needs and requirements and research the IEEE engineer standards that applied to the use case.</li> <li>● Keep updated with clients and advisor about project progress</li> </ul>  | 4 | 11 |
| Niharika | <ul style="list-style-type: none"> <li>● Contributed to updating the project documentation by adding technical requirements and user access levels.</li> <li>● Documented the functionalities of different user types (free and subscribed users) based on team discussions.</li> <li>● Researched documentation best practices to ensure the project documentation is clear and follows industry standards.</li> <li>● Reviewed IEEE standards to align the documentation with project requirements.</li> </ul> | 4 | 10 |

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|---------|---|---|----|
|         | <ul style="list-style-type: none"> <li>● Attended team meetings to discuss project updates, user personas, and documentation requirements.</li> <li>● Assisted with the preparation of presentation slides for our first Lightning Talk session.</li> <li>● Spent time familiarizing myself with the project's GitHub repository to understand the code structure and contribute more effectively.</li> </ul> |   |    |
| Varun   | Gained deeper insights into the project after attending a client meeting, collaborated on product research, contributed to Lightning Talk 1: Product Research and Empathy Mapping and Personas, and learned Angular and C.  | 4 | 12 |
| Eshanth | Done more research on project   | 3 | 9  |

***Plans for Upcoming Week:***

1. Project setup configurations and environment in our computers and looking closely at code to understand how we can start contributing to the project.
2. Talk to clients on further details regarding the project and also talk to the advisor to keep track with him.